

Product datasheet for **TA336918**

iNOS (NOS2) Mouse Monoclonal Antibody [Clone ID: 4E5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4E5
Applications:	ELISA, FC, IHC, WB
Recommended Dilution:	Immunohistochemistry-Frozen, Immunohistochemistry, Flow (Intracellular), Flow Cytometry: 1:200-1:400, Immunohistochemistry-Paraffin: 1:200-1:1000, ELISA: 1:10000, Western Blot: 1:500-1:2000
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human iNOS expressed in E. coli. [UniProt# P35228]
Formulation:	PBS, 0.03% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Ammonium sulfate precipitation
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	131 kDa
Gene Name:	nitric oxide synthase 2
Database Link:	NP_000616 Entrez Gene 18126 Mouse Entrez Gene 4843 Human P35228

Background: Nitric oxide is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission and antimicrobial and antitumoral activities. This gene encodes a nitric oxide synthase which is expressed in liver and is inducible by a combination of lipopolysaccharide and certain cytokines. Three related pseudogenes are located within the Smith-Magenis syndrome region on chromosome 17.



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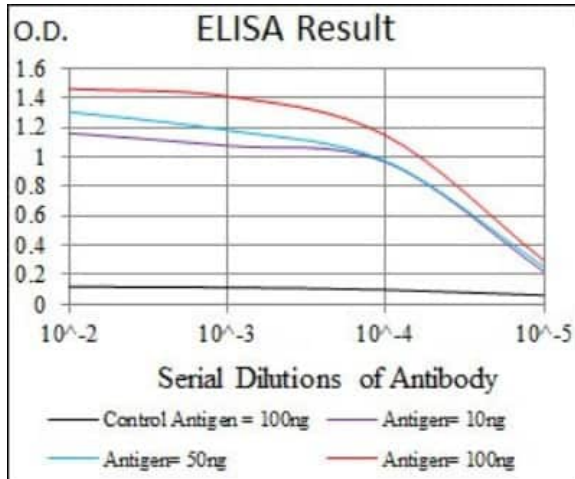
Synonyms: HEP-NOS; INOS; NOS; NOS2A

Note: This iNOS (4E5) antibody is useful for Western blot, Immunohistochemistry on paraffin-embedded sections, Flow Cytometry and ELISA.

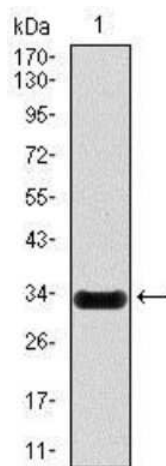
Protein Families: Druggable Genome

Protein Pathways: Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Arginine and proline metabolism, Calcium signaling pathway, Long-term depression, Metabolic pathways, Pathways in cancer, Small cell lung cancer

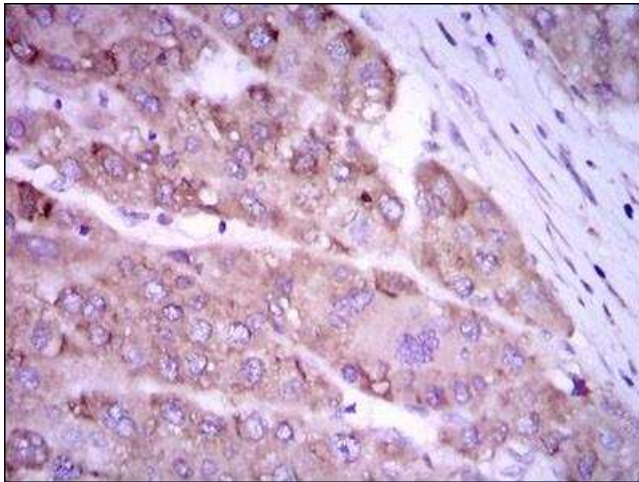
Product images:



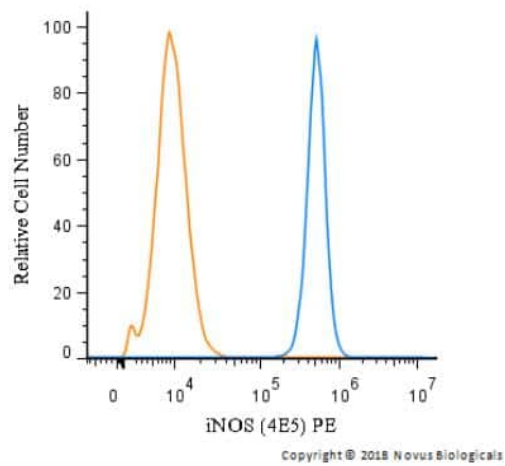
ELISA: iNOS Antibody (4E5) TA336918 - Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng).



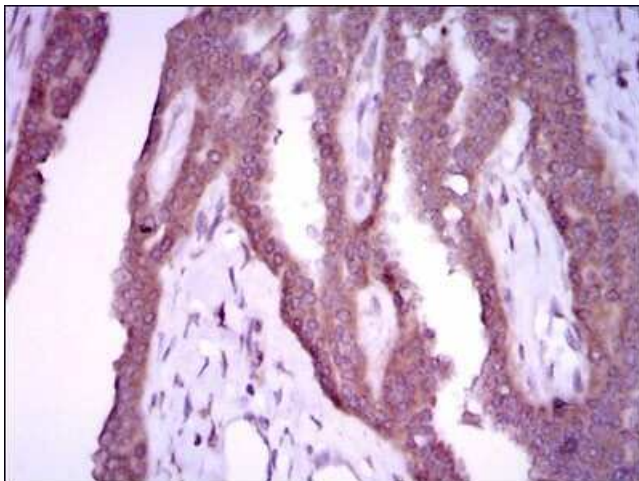
Western Blot: iNOS Antibody (4E5) TA336918 - Analysis using iNOS mAb against human iNOS (AA: 997-1058) recombinant protein. (Expected MW is 32.6 kDa)



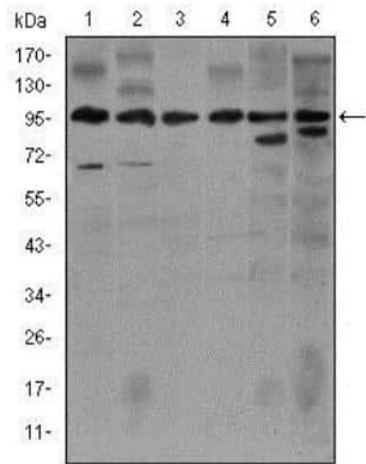
Immunohistochemistry-Paraffin: iNOS Antibody (4E5) TA336918 - Analysis of paraffin-embedded liver cancer tissues using iNOS mouse mAb with DAB staining.



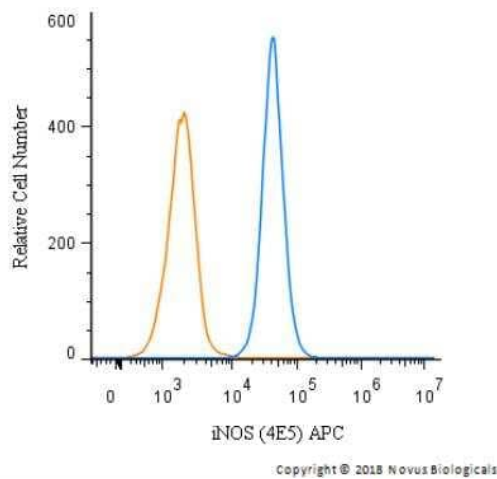
Flow Cytometry: iNOS Antibody (4E5) TA336918 - An intracellular stain was performed on A549 cells with TA336918PE (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated with antibody at 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to phycoerythrin (PE).



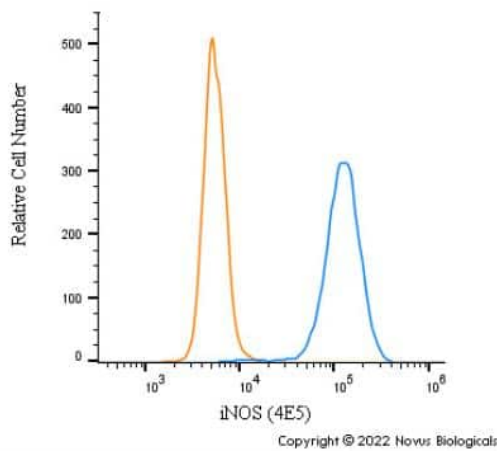
Immunohistochemistry-Paraffin: iNOS Antibody (4E5) TA336918 - Analysis of paraffin-embedded breast cancer tissues using iNOS mouse mAb with DAB staining.



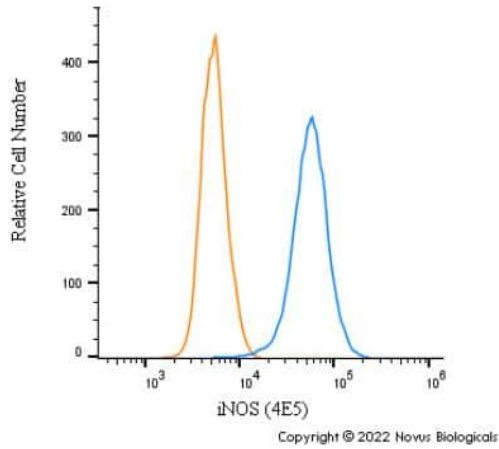
Western Blot: iNOS Antibody (4E5) TA336918 - Analysis using iNOS mouse mAb against Jurkat (1), Jurkat (2), A549 (3), HeLa (4), NIH3T3 (5) and MCF-7 (6) cell lysate.



Flow Cytometry: iNOS Antibody (4E5) TA336918 - An intracellular stain was performed on A549 cells with TA336918APC (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated with antibody at 1 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to allophycocyanin (APC).



Flow Cytometry: iNOS Antibody (4E5) - BSA Free TA336918 - An intracellular stain was performed on NIH3T3 cells with iNOS Antibody (4E5) TA336918 (blue) and a matched isotype control MAB002 (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature, followed by Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Dylight 550 (84540, Thermo Fisher).



Flow Cytometry: iNOS Antibody (4E5) - BSA Free TA336918 - An intracellular stain was performed on Caco-2 cells with iNOS Antibody (4E5) TA336918 (blue) and a matched isotype control MAB002 (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature, followed by Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Dylight 550 (84540, Thermo Fisher).